

## **LISTING OF THE CLAIMS**

1 (currently amended): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 10% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti and the balance of Zn and unavoidable impurities, the plating layer having a metal structure in which one or ~~at least two~~ more of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or ~~at least two~~ more of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase].

2 (currently amended): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg<sub>2</sub>Si phase], an [Al phase], and a [Zn<sub>2</sub>Mg phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or ~~at least two~~ more of the [Al phase], ~~and [Zn<sub>2</sub>Mg phase] and [Zn phase]~~.

3 (currently amended): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an

[Mg<sub>2</sub>Si phase], an [Al phase], a [Zn<sub>2</sub>Mg phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or ~~at least two~~ more of the [Al phase], [Zn<sub>2</sub>Mg phase] and [Zn phase].

4 (original): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, having on the steel product surface a zinc alloy plating layer composed of 4 to 22% by mass of Al, 1 to 5% by mass of Mg, up to 0.1% by mass of Ti, up to 0.5% by mass of Si and the balance of Zn and unavoidable impurities, the plating layer of the plated steel product having a metal structure in which an [Mg<sub>2</sub>Si phase], an [Al phase] and a [Zn phase] are present in a mixture in the matrix of an [Al/Zn/Zn<sub>2</sub>Mg ternary eutectic structure], and the plating layer containing a Ti-Al base intermetallic compound in one or two of the [Al phase] and [Zn phase].

5 (currently amended): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, wherein the Ti-Al base intermetallic compound according to ~~any one of claims 1 to 4~~ claim 1 is TiAl<sub>3</sub>.

6 (original): A highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability, wherein the Ti-Al base intermetallic compound according to any one of claims 1 to 4 is Ti(Al<sub>1-x</sub> Si<sub>x</sub>)<sub>3</sub> (wherein X = 0 to 0.5).

7 (previously presented): The highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability according to any one of claims 1 to 4, wherein the Ti-Al base intermetallic compound contained in an [Al phase] in the plating layer is present in a Zn-Al eutectoid reaction structure in which Zn phases are condensed.

8 (previously presented): The highly corrosion-resistant hot-dip galvanized steel product excellent in surface smoothness and formability according to any one of claims 1 to 4, wherein the size of a dendrite in an [Al phase] in the plating layer is up to 500  $\mu\text{m}$ .

Claim 9: (canceled).